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Substituted for Form 1449A/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/047,978
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	1	SP	4	Attorney Docket Number	SPLX P0089

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RELATED U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
	1.	2003/0078193	12-07-2001	Steven Teig et al.	Parent application; present application is a continuation of 2003/079193.
	2.	2003/0018947	12-07-2001	Steven Teig et al.	Application filed on the same day as the parent application 2003/079193, with the same specification as the present application except for summary and abstract.
	3.	2002/0147958	10-19-2001	Steven Teig et al.	Parent application per the preliminary amendment dated 2/19/02.
	4.	2003/0063614	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	5.	2003/0064559	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	6.	2003/0083568	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	7.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Continuation of 2003/079193.
	8.	2003/0101423 S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	9.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Continuation of 2003/079193.
	10.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	11.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Continuation of 2003/079193.
	12.	2003/0043827	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as
Examiner Signature					Date Considered:

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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	2	35	4	Attorney Check Number	SPLX/P0089

## RELATED U.S. PATENT DOCUMENTS

		S/N 10/040,953				The publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
	13.	2003/0083943 S/N 10/040,954	01-05-2002	Steven Teig et al.		Continuation of 2003/0079193.
	14.	2003/0083943 S/N 10/040,954	01-05-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0083943 does not accurately reflect the claims of S/N 10/040,954.
	15.	2003/0068042 S/N 10/040,953	01-05-2002	Steven Teig et al.		Continuation of 2003/0079193.
	16.	2003/0068042 S/N 10/040,953	01-05-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0068042 does not accurately reflect the claims of S/N 10/040,953.
	17.	2002/0174412 S/N 10/040,942	01-07-2002	Steven Teig et al.		Continuation of 2003/0079193.
	18.	2002/0174412 S/N 10/040,942	01-07-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/040,942.
	19.	2003/0088844 S/N 10/041,967	01-07-2002	Steven Teig et al.		Continuation of 2003/0079193.
	20.	2003/0088844 S/N 10/041,967	01-07-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/040,957.
	21.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.		Continuation of 2003/0079193.
	22.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
	23.	2003/0068042	01-13-2002	Steven Teig et al.		Continuation of 2003/0068044 per preliminary amendment.
	24.	2003/0115666	01-13-2002	Steven Teig		Continuation of 2003/0068044 per preliminary amendment.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)				Application Number	10047,938
				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	3	SP	4	Attorney Docket Number	SPLX-P0089

RELATED U.S. PATENT DOCUMENTS						
	25.	2003/0058187 S/N 10/047,932		01-14-2002	Steven Teig et al.	Continuation of 2003/0078193.
	26.	2002/0058187 S/N 10/047,932		01-14-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0058187 does not accurately reflect the claims of S/N 10/047,932.
	27.	2003/0060044		01-18-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	28.	2003/0060045		01-18-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	29.	2002/0133700		12-08-2000	Steven Teig et al.	Application regarding related placement technology.
	30.	2002/0100007		12-05-2000	Steven Teig et al.	Parent application; present application is a CIP of 2002/0100007.
	31.	2002/0073300 S/N 09/737,210		12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	32.	2002/0073300 S/N 09/737,210		12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073300 does not accurately reflect the claims of S/N 09/737,210.
	33.	S/N 09/737,220		12-13-2000	Steven Teig et al.	Application regarding related placement technology.
	34.	S/N 09/737,245		12-14-2000	Steven Teig et al.	Application regarding related placement technology.
	35.	S/N 09/739,460		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
	36.	2002/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
	37.	2003/0124231 S/N 09/739,580		12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.
	38.	S/N 09/739,580		12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
	39.	S/N 09/742,171		12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
	40.	2003/0121015		12-18-2000	Steven Teig et al.	Continuation of parent 2002/0100007.
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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Grain/Air Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	4	SP	4	Attorney Docket Number	SPLX.P0029

RELATED U.S. PATENT DOCUMENTS					
		S/N 00/745,067			
41.	2003/0121015 S/N 00/745,067	12-19-2000	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 00/745,067.
42.	2002/0069397	01-13-2002	Steven Teig et al.		CIP of parent 2002/0100007.
43.	2002/0170027	02-20-2002	Steven Teig et al.		CIP of parent 2002/0100007.
44.	2002/0157075	02-20-2002	Steven Teig et al.		CIP of parent 2002/0100007.
45.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.		Application regarding related placement technology.
46.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.		This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.

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(Standard form 1449A/PTO)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (SEE INSTRUCTIONS ON REVERSE)				Application Number 10/027,070
Filing Date 1/13/02				
First Named Inventor Steven Tang				
Group An Unit 8817				
Examiner Name Nancy A. Whitmore				
Attorney Docket Number SPLX-P0055				
Sheet	1	of	1	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Date Filed	Document Title	Page Number
	1	Wang, R. et al. "Post-layout Routing" IEEE/ACM International Conference on Computer Aided Design, ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT: NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, S.O. Nov. 2000, Pages 110-113.	
	2	Jiang, H. et al. "A Timing-Constrained Algorithm for Simultaneous Global Routing of Multiple Nets" IEEE/ACM International Conference on Computer Aided Design - ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT: NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, S.O. Nov. 2000, Pages 99-103.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number 10/047,878
				Filing Date 1/13/02
				First Named Inventor Steven Tang
				Group Art Unit 8812
				Examiner Name Stacy A. Whitmore
				Attorney/Agent Number SPLX-PGURE
Sheet	1	of	1	

NON PATENT LITERATURE DOCUMENTS			
Examination Number	Doc ID <sup>1</sup>	Examiner's Description of the Document (including title, author, date, and other pertinent information)	P
	1.	Kagami R et al: "Recursive Routing" IEEE/ACM International Conference on Computer Aided Design, ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT: NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000, Pages 110-113.	
	2.	Jiang H et al: "A Timing-Constrained Algorithm for Simultaneous Global Routing of Multiple Nets" IEEE/ACM International Conference on Computer Aided Design - ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT: NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA USA, 5-9 Nov. 2000, Pages 99-103.	

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		Filing Date 1/13/02
		First Named Inventor Steven Teig
		Group for Unit 2812
		Examiner Name Stacy A. Whittemore
Sheet 1 of 6	Attorney Docket Number SPLX-P0069	

U.S. PATENT DOCUMENTS						
Examiner's Initials	Cite No.	U.S. Patent Document Number Serial Kind Code (if known)		Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Chief Inventor	Pages, Columns, Lines Where Relevant Portion(s) of Relevant Figure(s) Appear
	1.	2001/0009031	A1	07-19-2001	Nitta et al.	
	2.	4,593,353		08-03-1986	Burstein et al.	
	3.	5,257,176		11-30-1993	Antreich et al.	
	4.	5,566,078		10-16-1996	Ding et al.	
	9.	5,618,744		04-08-1997	Suzuki et al.	
	6.	5,635,736		08-03-1997	Furuki et al.	
	7.	5,637,920		08-10-1997	Loo	
	8.	5,640,327		06-17-1997	Ting	
	9.	5,798,336		08-25-1999	Chong	
	10.	5,838,583		11-1999	Varadarajan et al.	
	11.	5,980,093		11-09-1999	Jones et al.	
	12.	6,070,108		05-30-2000	Andriev et al.	
	13.	6,150,193		11-21-2000	Glenn	
	14.	6,209,123	B1	03-27-2001	Maziasz et al.	
	15.	6,210,832	B1	04-17-2001	Buzbee	
	16.	6,249,902	B1	06-19-2001	Igusa et al.	
	17.	6,253,368	B1	06-26-2001	Gassanov et al.	
	18.	6,295,634	B1	09-25-2001	Matsumoto	
	19.	6,307,256		10-23-2001	Chiang et al.	
	20.	6,318,938	B1	11-13-2001	Ozawa et al.	
	21.	6,324,675	B1	11-27-2001	Della et al.	

Examiner Signature	Date Considered
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Substitute for form 1462A, PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Filing Date	7/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
(Use as many sheets as necessary)				Attorney Docket Number	SPLX.P0089
Sheet	2	of	6		

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Examiner Initials	Case No.	Foreign Patent Document Code <sup>1</sup>	Serial Number <sup>2</sup>	Kind Code (if known) <sup>3</sup>	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Foreign Document	Pages, Drawings, Links: Where Relevant Figures or Tables Appear
	33.	JP	411295560	A	10-29-1999	Matsumoto et al.	with English translation of Abstract
	34.	JP	2000-82743	A	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract, and with English translation of the application
	35.	JP	H03-173471	A	07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract, and with English

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				Filing Date	1/12/02
				First Named Inventor	Steven Tsig.
				Group Art Unit	2812
				Examiner Name	Stacy A. Whittemore
Sheet	3	of	6	Attorney/Agent Number	SPLX-P0090

FOREIGN PATENT DOCUMENTS							
							translation of the application.
35	JP	H05-243379	A	06-21-1993	Masaaki Kubota	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
37	JP	H05-152305	A	04-23-1993	Akhiro Saito	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
38	JP	H07-86407	A	03-31-1995	Shinpei Mura	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓
39	JP	H05-152278	A	05-20-1993	Masaaki Yokokida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application.	✓

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Substitute for form 1449A/PTO				Application Number	10/047,970
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	4	of	6	Attorney Docket Number	SPLX.P5035

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the book, journal, magazine, newspaper, serial, symposium, etc., date, page(s), volume/issue number(s), publisher, city, state/country when published			
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Application Number	10/047,376
				Filing Date	7/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whiteford
Sheet	5	of	6	Attorney Docket Number	SPLX.P0089

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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Gloven Tsig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	6	of	6	Attorney Docket Number	SPLX.FC089

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Substitute for Form 1-449/VPTO				Application Number	10/0-17,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Toig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	1	of	1	Attorney Docket Number	SPLX.P0069

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code of Document	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	1.	2003/0182844	A1	12-05-2002	Igarashi et al.
	2.	2003/0053399	A1	01-02-2003	Igarashi et al.
	3.	5,663,891		09-02-1997	Barni et al.
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	8.	6,519,751	B2	02-11-2003	Sriram et al.
	9.	6,543,043	B1	04-01-2003	Wang et al.

NON PATENT LITERATURE DOCUMENTS				T*
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	10.	Hu, J. et al., A Timing-Constrained Algorithm for Simultaneous Global Routing of Multiple Nets, IEEE/ACM International Conference on Computer Aided Design (ICCAD) - 2000, IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000, pp.99-103.		
	11.	Kastner, R. et al., Predictable Routing, IEEE/ACM International Conference on Computer Aided Design, ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000, pp. 110-113.		

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Substitute for form 1449A/PTO		Application Number	10/D47,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	1/13/2002
		First Named Inventor	Steven Telg
		Group/Art Unit	2512
		Examiner Name	Stacy Whitmore
Sheet	1	of	1
		Attorney Docket Number	SPLX.P0069

U.S. PATENT DOCUMENTS						
Examiner Initials	CRF No.	U.S. Patent Document Number	Kind Code (if shown)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Whole Relevant Passages or Relevant Figure Number
	1	2003/0121017	A1	05-25-2003	Andreev et al.	
	2	6,088,519		07-11-2000	Koford	

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	3.	Chen et al., Optimal Algorithms for Bubble Sort Based Non-Manhattan Channel Routing, May 1994, Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions Volume: 13 Issues, pp. 603-609.	

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